## WHAT IS CLAIMED IS:

A system for measuring the profile of an object comprising:

 a source creating a beam of electromagnetic energy;
 an electromagnetic beam receiver spaced from said source for processing an output signal proportional to the girth of said object being measured;

a platform for providing rotational and vertical movement of said object being measured causing said object to obstruct a portion of said electromagnetic beam generated by said source; and

a processor for processing said output signal from said electromagnetic beam receiver to form a composite profile of said object measured.

- The system of claim 1 further comprising a motion unit for
   providing said rotation and vertical movement.
  - 3. The system of claim 2 wherein said motion unit includes a vertical drive device for vertically displacing said platform.
- 20 4. The system of claim 3 where said vertical drive device includes a linear screw drive.
  - 5. The system of claim 2 wherein said motion unit includes a rotational drive device for rotationally displacing said platform.

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6. The system of claim 6 wherein said vertical drive device includes a gear driven mechanism.

- 7. The system of claim 1 further comprising an indexing station for providing a plurality of objects to said platform, said indexing station automatically positions a respective object on said platform.
  - 8. The system of claim 1 wherein said beam of electromagnetic energy is an electromagnetic laser beam.
  - 9. The system of claim 8 wherein said electromagnetic laser beam is generated by a class II laser light source.

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- 10. The system of claim 9 wherein said laser light source is a visible red light source.
  - 11. The system of claim 10 wherein said visible red light source includes a wavelength of 670 nanometers.
- 12. A system for measuring the profile of an object comprising:

  a source creating a beam of electromagnetic energy;

  an electromagnetic beam receiver spaced from said source for processing an output signal proportional to the girth of said object being measured;
- a platform for supporting said object;

  a motion unit for providing rotational and vertical movement of

said platform for disposing said object within said electromagnetic beam of energy, said object obstructs a portion of said electromagnetic beam generated by said source; and

a processor for processing said output signal from said electromagnetic beam receiver to form a composite profile of said object measured.

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13. A method for measuring the profile of an object comprising the steps of:

positioning said object on a platform of a motion unit; providing a source for generating a primary beam of electromagnetic energy of a predetermined width;

vertically and rotationally disposing said object within said primary beam of electromagnetic energy using said vertical motion unit, said object obstructing a portion of said primary beam of electromagnetic energy;

receiving at least one secondary electromagnetic beam of energy within a receiving unit disposed opposite of said source, said at least one secondary electromagnetic beam of energy has a smaller width than said primary beam; and

processing an output signal proportional to a girth of said object being measured to form a composite profile of said object measured.

The method of claim 13 wherein said object is vertically
 positioned within said primary beam of electromagnetic energy by a vertical drive device for profiling a respective plane of said object.

15. The method of claim 13 wherein said object is rotationally positioned within said primary beam of electromagnetic energy by a rotational drive device for profiling a respective view within a respective plane of said object.

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- 16. The method of claim 13 further comprising the step of transmitting said output signal to a computer for storing said composite profile.
- 17. The method of claim 13 wherein said processing step comprises measuring a void area within said receiving unit for determining said composite profile.
- 18. The method of claim 13 wherein said processing step comprises

  measuring at least one secondary electromagnetic beam and determining the
  difference between a width of said primary beam of electromagnetic energy
  and said at least one secondary electromagnetic beam for forming said
  composite profile.
- 20 19. The method of claim 13 further comprising the step of determining a perpendicularity of said object.
  - 20. The method of claim 13 further comprising the step of determining a zero reference point for said object.

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